(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 17 February 2005 (17.02.2005)

PCT

(10) International Publication Number WO 2005/014635 A2

- (51) International Patent Classification7: C07K 14/47, A61K 38/47, C12N 15/56, C12Q 1/34, G01N 33/573
- (21) International Application Number:

PCT/EP2004/007842

(22) International Filing Date: 15 July 2004 (15.07.2004)

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:

15 July 2003 (15.07.2003) US 60/487,351 60/487,290 15 July 2003 (15.07.2003) US 60/487,288 US 15 July 2003 (15.07.2003) 60/487,391 15 July 2003 (15.07.2003) US

- (71) Applicant (for all designated States except US): GENOVA LTD.; Canon's Court, 22 Victoria Street, Hamilton HM 12 (**).
- (71) Applicant (for AT only): NOVARTIS PHARMA GMBH [AT/AT]; Brunner Strasse 59, A-1230 Vienna (AT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ARGOUD-PUY, Guilaine [FR/CH]; c/o GeneProt, Inc., 2, Pre-de-la-Fontaine, CH-1217 Meyrin (CH). BEDERR, Nassima [FR/CH]; c/o GeneProt, Inc., 2, Pre-de-la-Fontaine, CH-1217 Meyrin (CH). BOUGUELERET, Lydie [FR/CH]; c/o GeneProt, Inc., 2, Pre-de-la-Fontaine, CH-1217 Meyrin (CH). CUSIN, Isabelle [FR/CH]; c/o GeneProt, Inc., 2, rue Pre-de-la-Fontaine, CH-1217 Meyrin (CH). MAHE, Eve [FR/CH]; c/o GeneProt, Inc., 2, Pre-de-la-Fontaine, CH-1217 Meyrin (CH). NIKNEJAD, Anne [CH/CH]; c/o GeneProt, Inc., 2, Pre-de-la-Fontaine,

CII-1217 Meyrin (CII). REFFAS, Samia [CII/CII]; c/o GeneProt, Inc., 2, pre-de-la-Fontaine, CII-1217 Meyrin (CII). ROSE, Keith [GB/CII]; c/o GeneProt, Inc., 2, Pré de la Fontaine, CII-1217 Meyrin (CII). SAUDRAIS, Cedric [FR/CII]; c/o GeneProt, Inc., 2, Pré de la Fontaine, CII-1217 Meyrin (CII).

- (74) Agent: GRUBB, Philip; Novartis AG, Corporate Intellectual Property, CII-4002 Basel (CII).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(19) World Intellectual Property Organization

International Bureau



I INDIA DHIBRAT H GATAR KOM ROMI REKRI RIM I MIN DOLIN 1901 RIMA RIMAR DHIBR HI DHIR RIMAR FORD IN MI

(43) International Publication Date 17 February 2005 (17.02.2005)

PCT

(10) International Publication Number WO 2005/014635 A3

(51) International Patent Classification⁷: C07K 14/47, A61K 38/47, C12N 15/56, C12Q 1/34, G01N 33/573

(21) International Application Number:

PCT/EP2004/007842

(22) International Filing Date: 15 July 2004 (15.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/487,351 15 July 2003 (15.07.2003) US 60/487,290 15 July 2003 (15.07.2003) US 60/487,288 15 July 2003 (15.07.2003) US 60/487,391 15 July 2003 (15.07.2003) US

- (71) Applicant (for all designated States except US): GENOVA LTD.; Canon's Court, 22 Victoria Street, Hamilton HM 12 (**).
- (71) Applicant (for AT only): NOVARTIS PHARMA GMBH [AT/AT]; Brunner Strasse 59, A-1230 Vienna (AT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ARGOUD-PUY, Gullaine [FR/CH]; c/o GeneProt, Inc., 2, Pre-de-la-Fontaine, CH-1217 Meyrin (CH). BEDERR, Nassima [FR/CH]; c/o GeneProt, Inc., 2, Pre-de-la-Fontaine, CH-1217 Meyrin (CH). BOUGUELERET, Lydie [FR/CH]; c/o GeneProt, Inc., 2, Pre-de-la-Fontaine, CH-1217 Meyrin (CH). CUSIN, Isabelle [FR/CH]; c/o GeneProt, Inc., 2, rue Pre-de-la-Fontaine, CH-1217 Meyrin (CH). MAHE, Eve [FR/CH]; c/o GeneProt, Inc., 2, Pre-de-la-Fontaine, CH-1217 Meyrin (CH). NIKNEJAD, Anne [CH/CH]; c/o GeneProt, Inc., 2, Pre-de-la-Fontaine, CH-1217 Meyrin (CH). REFFAS, Samla [CH/CH]; c/o GeneProt, Inc., 2, pre-de-la-Fontaine, CH-1217 Meyrin (CH). REFFAS, Samla [CH/CH]; c/o GeneProt, Inc., 2, pre-de-la-Fontaine, CH-1217 Meyrin

(CII). ROSE, Kelth [GB/CII]; c/o GeneProt, Inc., 2, Pré de la Fontaine, CII-1217 Meyrin (CII). SAUDRAIS, Cedric [FR/CII]; c/o GeneProt, Inc., 2, Pré de la Fontaine, CII-1217 Meyrin (CII).

- (74) Agent: GRUBB, Philip; Novartis AG, Corporate Intellectual Property, CH-4002 Basel (CH).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, IT, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 19 May 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(57) Abstract: The invention discloses human secreted potypeptides that circulate at a decreased level in the plasma of patients with cardiovascular disorders. The invention also provides methods of using compositions including the polypeptides, polynucleotides encoding them, and antibodies specific for these polypeptides, for diagnosis, prognosis, and for drug development.